

SAMPLE MIXING ON A MICROFLUIDIC DEVICE

5

ABSTRACT OF THE DISCLOSURE

10 Mixing structures for use on sample processing devices are disclosed. The mixing structures include one or more mixing chambers in fluid communication with a process chamber, such that changing the rotational speed of the sample processing device forces sample material into and out of the mixing chamber to achieve mixing of the sample material. The mixing chambers are in fluid communication with the process chambers through mixing ports that are located on the distal sides of the process chambers with respect to the axis about which the sample processing device is rotated.